"Acoustics 2005"

Busselton Western Australia 9th - 11th November 2005

Program

Program Outline

Session	Schedule
Wednesday	
Pre-conference Workshop on ANVC at University of WA	9.30 -12.30
Pre-conference Short Course on Transportation Noise	10.45 - 3.30
Charter coach departs Perth domestic airport	12.20pm
Conference Registration	4.00-6.30pm
Sundowner Welcome	6.30-10pm
Thursday	
Conference Registration	8.00 - 8.30am
Conference Opening	8.30am
Conference papers and workshops	8.30 - 5.00
AAS Annual General Meeting	5.00 - 5.30pm
Pre-dinner drinks	7.00 - 7.30pm
Conference Dinner	7.30 - 11.00pm
Friday	
Conference papers and workshops	8.30 - 4.15
Conference close	4.15pm
Charter coach departs for Perth domestic airport	5.00pm

	Wednesday 9 th November 2005		
9.30 -	Pre-conference workshop on Active Noise and Vibration Control		
12.30	University of Western Australia		
	Coordinator: Dr J Pan		
10.45 -	Pre-conference Short Course on Transportation Noise		
3.30	Abbey Beach Resort, Room Abbey 4		
	Coordinator: M Limb		

Conference Charter Coach Departs:
Perth Domestic Airport 12.20pm, Perth CBD 1.00pm, University of WA 1.30pm

4.00 -	Conference Registration
6.30	Atrium
6.30 -	Conference Sundowner Welcome
10.00	Atrium Terrace

Thursday 10th November 2005 - morning

8.00	Registration in Ballroom Foyer		
8.30	Conference Opening		
	Ballroom		
8.40	Session P1 Keynote Address by Dr Andy Moorhouse		
	"Virtual acoustic prototypes: listening to machines that don't exist"		
	Chair: Dr Alec Duncan		
	Ballroom		

	Session 1A	Session 1B	Session 1C	Session 1D
	Environmental Acoustics	Active Noise & Vibration	Vehicle Noise	Underwater Acoustics
	Chair: S Camp	Control		Propagation
	Ballroom	Chair: Dr A Zander	Chair: J Parnell	Chair: Prof. A Gavrilov
		Abbey 5	Abbey 4A	Abbey 4B
9.25	44: Challenges in our	50: Robust virtual	Workshop on	25: Difference in signals
	changing soundscape	acoustic sensing	Engine-Brake Noise	from a mid-ocean shot at
				hydro-phones near Diego
				Garcia & Cape Leeuwin
	P Dickinson	D Halim, B Cazzolato		M Hall
9.50a	73: Application of	10: Investigation into the		83: Simulation of time
	acoustic techniques in the	feasibility of using a		series received
	management of a	parametric array control		underwater from small
	threatened migratory bird	source in an active noise		explosive detonations in
		control system		shallow ocean regions
	C Wilson, M Holdsworth	L Brooks, A Zander,		A Jones, A Duncan,
		C Hansen		P Clarke, A Maggi
10.15	67: The acoustics of	56: Six-axis vibrational	34: General design	92: Sound propagation
	church belltowers for	power transducer for	principles for an	through the Antarctic
	change ringing	active vibration isolation	automotive muffler	Convergence Zone &
				comments on 3 major
				experiments
	John Bassett	C Howard, C Hansen	D Potente	M Hall

10.40 Morning Tea in the Trade Exhibition Area

	Session 2A	Session 2B	Session 2C	Session 2D
	Environmental Acoustics	Active Noise & Vibration	Workshop:	Underwater Acoustics
	Chair: J Macpherson	Control	BCA	Sonar
	Ballroom	Chair: Dr B Cazzolato	Chair: G Harding	Chair: J Exelby
		Abbey 5	Abbey 4A	Abbey 4B
11.05	03: Noise mapping an	62: Active vibration	Workshop on the	08: Adaptive beam-
	entertainment precinct	control of a magneto-	Building Code of	forming for sonar audio
		rheological sandwich	Australia	
		beam		
	D Borgeaud	L Chen, C Hansen		Chaoying Bao
11.30	31: Entertainment noise	52: Beam steering of		15: Expectation
	in Western Australia	sound from flat panels		maximisation algorithm
		using spatially-averaged		for detection of high
		objective functions		band-width sonar pulses
	J Guo, P Gunn	D Halim, B Cazzolato		S Lourey, R Evans,
11.55	35: Influence of music	47. Massaged dynamics		W Moran, A Larsson
11.33		47: Measured dynamics		87: Design and
	genre and composition on	of a thin cylindrical shell		implementation of sonars
	entertainment noise limits	subject to axial excitation		for underwater inspection
				with ROV
	M Hayne, D Mee,			
	R Rumble (M Lanchester)	James A. Forrest		E Sang,X Ji, Y An, J Zhao

12.30	Lunch in the Atrium
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Thursday 10th November 2005 - afternoon

1.30	Session P2 Plenary Address by Joseph Rice
	"Seaweb acoustic Com/Nav networks"
	Chair: Chris Gillard
	Ballroom

	Session 3A	Session 3B	Session 3C	Session 3D
	Acoustics of Music	Engineering Noise &	Workshop:	Underwater Acoustics
		Vibration Control	Env Noise Modelling	Biological
	Chair: N Gabriels	Chair: Dr C Howard	Chair: N Gross	Chair: D Cato
	Ballroom	Abbey 5	Abbey 4A	Abbey 4B
2.15	17: Musical notes	95: Improvement of	Workshop on	49: High Frequency
	quotient	sound absorption of	Environmental Noise	Biophysical
		honeycomb panels	Modelling	Oceanography in Western
				Australia
	G.K.Ketkar	J Pan, J Guo, C Ayres		N Mortimer, R Kloser,
				T Koslow
2.40	72: Spectral and temporal	57: Optimisation of		48: Preliminary analysis
	changes in singer	design and location of		of single-beam acoustic
	performance with	acoustic and vibration		data of fish spawning
	variation in vocal effort	absorbers using a		aggregations along the
		distributed computing		Western Australian
	K Skirlis, D Cabrera,	network		coastline
	A Connolly	C Howard, C Hansen,	Chair #64 TBA	M Parsons, R McCauley,
		A Zander		M Mackie
3.05	80: The role of vocal tract		64: Min-norm spatial	30: An exploratory
	resonances in singing and	rocket payload fairing	spectrum based on	analysis of non-Poisson
	in playing wind	using tuned vibration	vector-hydrophone linear	temporal behaviour in
	instruments	absorbers with	array	snapping shrimp noise
		translational and		
		rotational DOFs		M Legg, A Duncan,
	J Smith, J Wolfe	C Howard, C Hansen,	L Zhang, D Yang	A Zaknich, M Greening
		A Zander		

3.30	Afternoon Tea in the Trade Exhibition Area			
4.00 -	Session P3 Plenary Forum			
4.55	"The Future for Acoustics in Australia"			
	Chair: Marion Burgess			
	Ballroom			
5.00 -	Australian Acoustical Society Annual General Meeting			
5 30	Rallroom			

Thursday 10th November 2005 - evening

7.00	Pre-Dinner Drinks
	TBA
7.30 -	Conference Dinner
11.00	Ballroom

8.00 Displays in Trade Exhibition Area 8.30 Day 2 Introduction and Update in Ballroom A 8.35 Session P4 Plenary Address by Professor Neville Fletcher "Acoustic systems in biology: from insects to elephants" Chair: Neil Gross Ballroom

	Session 4A	Session 4B	Session 4C	Session 4D
	Architectural Acoustics	General	Workshop:	Underwater Acoustics
			Construction Noise	General
	Chair: M Cake	Chair:	Chair: J Macpherson	Chair: M Hall
	Ballroom	Abbey 5	Abbey 4A	Abbey 4B
	68: Auditory room size	Vacant	Workshop on	59: The effect of incident
	perception for real rooms		Construction Noise -	angle on statistical
9.20			a new approach for NSW	variation of backscatter
				measured using a high-
				frequency multibeam
				sonar
	C Pop, D Cabrera			I Parnum, A Gavrilov,
				P Siwabessy, A Duncan
9.45	69: Reproduction of	Vacant		78: Detection and
	room sound-fields for			localization of ice rifting
	subjective assessment			and calving events in
				Antarctica using remote
				hydro-acoustic stations
	D Cabrera			A Gavrilov, G Vazques

10.10	Morning Tea in the Trade Exhibition Area
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	Session 5A	Session 5B	Session 5C	Session 5D
	Transportation Noise	Engineering Noise &	Occupational Noise	Underwater Acoustics
	Rail/Air/Road	Vibration Control		Biological
	Chair: P Dickinson	Chair: Dr N Kessissoglou	Chair: P Gunn	Chair: Dr C Salgado-Kent
	Ballroom	Abbey 5	Abbey 4A	Abbey 4B
10.40	04: The impact of the	61: Optimisation of	45: Acoustic shock in	Workshop on Noise
	geometry of rail welds on	stiffener layout on a	call centres	Impacts on Marine
1 minute	noise level in urban	shell-like structure		Animals
silence at	environments			
1100h	S Lakusic, R Kecur	A Shen, R Randall	B Groothoff	
11.05	98: Managing aircraft	89: Predicting the	55: Review of current	
	noise within an air traffic	acoustic performance of	recommendations for	
	environment	mufflers using trans-	airborne ultra-sound	
		mission line theory	exposure limits	
		D Suwandi, J Middelberg,	C Howard, C Hansen,	
	I McLeod	K Byrne, N Kessissoglou	A Zander	Chair #19,07: Dr R McCauley
11.30	02: Traffic noise control	42: An adaptive chimney	70: Evaluation of	19: Sonar termination as
	using acoustic screens	stack for noise control	occupational noise	a cause of mass cetacean
			exposure - advantages	strandings in Geographe
			and disadvantages of	Bay, south-western
			noise dosimetry versus	Australia
			sampling using an SLM	
	S Temelkoski,		D Warrington,	
	E O'Callaghan	M Kidner, B Cazzolato	J McLoughlin	S Chambers, R James
11.55	40: Development and	94: Control of building	96: Improved calculation	07: The ambient sound
	evaluation of roadside	vibration against	for hearing protector	field in three freshwater
	barriers to attenuate road	earthquakes	performance	environments
	traffic noise	_		J Giles, J Davis,
	J Parnell, S Samuels	Н Wu, B Samali	W Williams	R McCauley, G Kuchling

12.20	Lunch in the Atrium
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Friday 11th November 2005 - afternoon

	Session 6A	Session 6B	Session 6C	Session 6D
	Transportation Noise	Active Noise & Vibration	Acoustics General	Underwater Acoustics
	Road	Control		Communications
	Chair: R Langford	Chair: Dr X Pan	Chair: J McLoughlin	Chair: J Rice
	Ballroom	Abbey 5	Abbey 4A	Abbey 4B
1.15	38: A follow up	43: Global control of	11: Learning acoustics	82: The effect of forward
	investigation of the long	sound radiation from a	through the boundary	error correction on the
	term road traffic noise	plate using several	element method: an	performance of
	attributes of some	adaptive vibration	inexpensive graphical	underwater telemetry
	pavement surfaces in	neutralisers with local	interface and associated	systems
	Townsville	control schemes	tutorials	
	S Samuels, A Hall	M Kidner, R Wright	L Brooks, R Morgans,	
			C Hansen	D Sweet, J Wang
1.40	39: Queensland Dept of	18: Active modal control	29: Wake and acoustic	74: Generalised
	Main Roads pavement	of hull radiated noise	responses of a circular	differential encoding for
	surface noise resource		cylinder to freestream	underwater acoustic
	manual		fluctuations	communication
			R Widjaja, A Ooi, L Chen, R	
	A Hall, S Samuels	X Pan, Y Tso, R Juniper	Manasseh	David W. Bartel
2.05	91: Noise monitoring	51: Active broad-band	77: Acoustic Standards	66: Application of
	program for assessing the	control of vibrating panel	developed by Standards	frequency estimation
	impact of maximum	structures with multiple	Australia	algorithm based on a
	traffic noise levels	structural sensors		single vector sensor in
				underwater acoustic
				communication
	R Treagus, C Beazley	D Halim, B Cazzolato	S Wellham	G Qiao

2.30	Afternoon Tea in the Trade Exhibition Area
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	Session 7A	Session 7B	Session 7C	Session 7D
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	Acoustic/Vibration	Electro Acoustics	Thermo Acoustics	Underwater Acoustics
	Measurement/Modelling			General
	Chair: G Barnes	Chair: Dr A Zaknich	Chair: Dr J Guo	Chair: Dr C Salgado-Kent
	Ballroom	Abbey 5	Abbey 4A	Abbey 4B
2.50	14: An optical 3D sound	12: Resolution	20: Review of flow-	88: Reduction of the
	intensity and energy	enhancement of a general	through design in	acoustic signature of a
	density probe	HRTF library	thermoacoustic	submerged vessel
	B Cazzolato, D Halim,	-	refrigeration	P Dylejko,
	D Petersen, Y Kahana,	J Sodnik, R Susnik,	T Bammann, C Howard,	N Kessissoglou, Y Tso,
	A Kots	S Tomazic	B Cazzolato	C Norwood
3.15	37: A portable data	09: A loudspeaker	32: Feasibility study of	90: Mobile submarine
	acquisition system for the	response interpolation	an automotive thermo-	target strength
	measurement of impact	model based on 1/12	acoustic refrigerator	measurement
	attenuation of playground	octave interval frequency		
	surfacing	measurements	L Zoontjens, C Howard, A	
	D Eager, C Chapman	A Zaknich	Zander, B Cazzolato	A Ghiotto, G Cook
3.40	36: Road traffic noise	28: Coding of elevation	33: Development of a	81: Development of an
	prediction: an artificial	in acoustic image of	low-cost loudspeaker-	experimental
	intelligence approach	space	driven thermoacoustic	methodology for
		•	refrigerator	assessing the impact of
			8	noise on marine
				mammals
		R Susnik, J Sodnik,	L Zoontjens, C Howard, A	D Cato,M Noad,D Stokes, P
	B Doolan, S Carter	S Tomazic	Zander, B Cazzolato	Miller, N Biassoni,
	B Dooiun, 5 Curier			E Kniest, G Deane, J Noad

4.05 -	Conference Close
4.15	Chair: Dr Alec Duncan
	Ballroom

5.00	Charter coach departs for Perth Domestic Airport and Perth CBD